

RTEL1 (E-19): sc-85901

BACKGROUND

RTEL1 (regulator of telomere elongation helicase 1), also known as C20orf41, KIAA1088 or NHL, is a 1,400 amino acid nuclear protein that contains one helicase ATP-binding domain and belongs to the helicase family of DNA-binding proteins. In mice, RTEL1 is required for telomere elongation and is an important regulator of chromosome stability. Human RTEL1 is highly expressed in kidney and intestine and, existing as a functional ortholog of its mouse counterpart, is thought to act as an ATP-dependent helicase that may regulate chromosome function and genomic stability. The gene encoding RTEL1 maps to a gene-rich cluster on chromosome 20 that is thought to house a number of tumor-related genes, suggesting that RTEL1 may play a role in tumorigenesis. Multiple isoforms of RTEL1 exist due to alternative splicing events.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: RTEL1 (human) mapping to 20q13.3.

SOURCE

RTEL1 (E-19) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within an internal region of RTEL1 of human origin.

PRODUCT

Each vial contains 100 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, ready P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

APPLICATIONS

RTEL1 (E-19) is recommended for detection of RTEL1 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for RTEL1 siRNA (h): sc-76438, RTEL1 shRNA Plasmid (h): sc-76438-SH and RTEL1 shRNA (h) Lentiviral Particles: sc-76438-V.

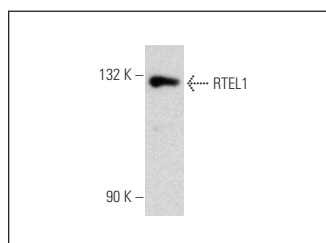
Molecular Weight of RTEL1: 152 kDa.

Positive Controls: HEK293T whole cell lysate: sc-45137.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker[™] compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker[™] Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz[™] Mounting Medium: sc-24941.

DATA



RTEL1 (E-19): sc-85901. Western blot analysis of RTEL1 expression in HEK293T whole cell lysate.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

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Try **RTEL1 (H-5): sc-515427**, our highly recommended monoclonal alternative to RTEL1 (E-19).